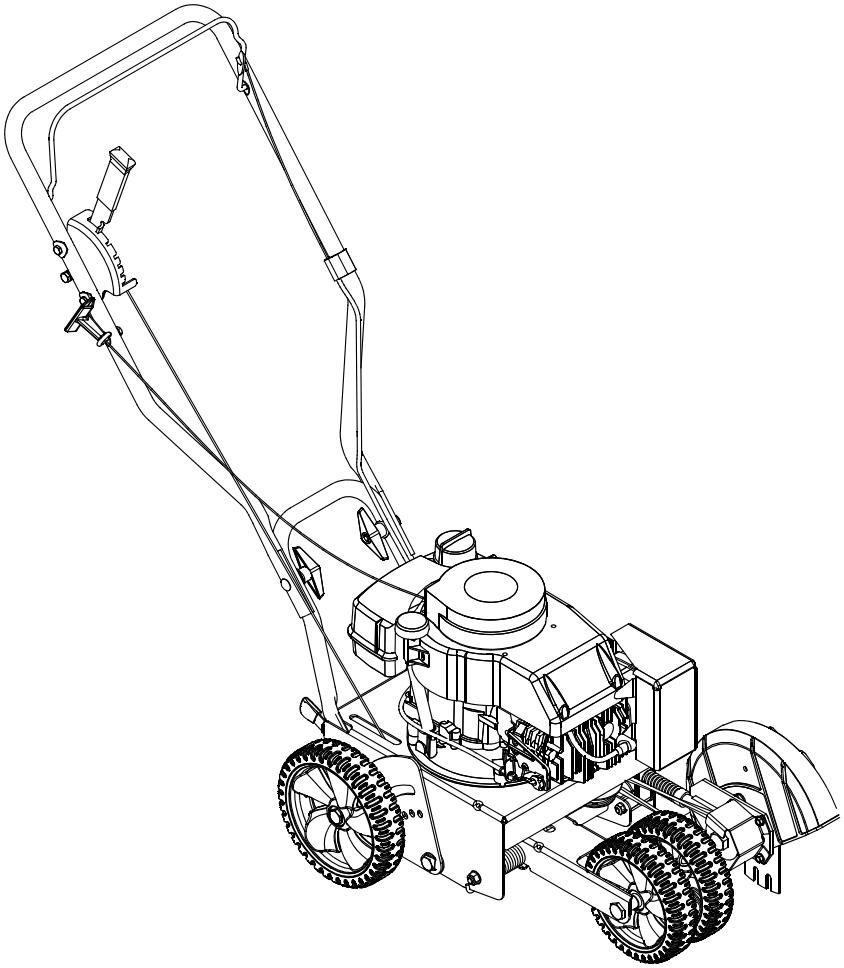
Operator's Manual



Model 550 and 551 Shown

Edger

Models 520
550
551

IMPORTANT: READ SAFETY RULES AND INSTRUCTIONS CAREFULLY

Warning: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized service dealer or contact the service department, P.O. Box 361131 Cleveland, Ohio 44136-0019.

MTD LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019

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FINDING MODEL NUMBER

This Operator's Manual is an important part of your new lawn mower. It will help you assemble, prepare and maintain the unit for best performance. Please read and understand what it says.

Before you start assembling your new equipment, please locate the model plate on the equipment and copy the information from it in the space provided below. A sample model plate is also given below. You can locate the model plate by standing at the operating position and looking down at the rear of the deck. This information will be necessary to use the manufacturer's web site and/or help from the Customer Support Department or an authorized service dealer.

Copy the model number here: _____

Copy the serial number here: _____

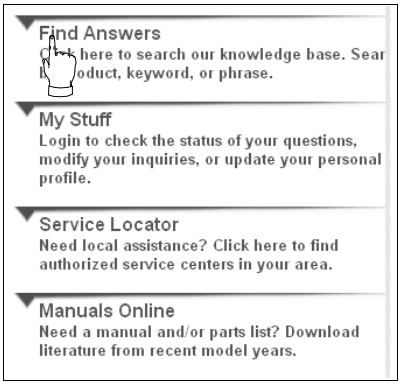
CUSTOMER SUPPORT

Please do NOT return the unit to the retailer from where it was purchased, without first contacting Customer Support.

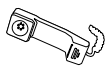
If you have difficulty assembling this product or have any questions regarding the controls, operation or maintenance of this unit, you can seek help from the experts. Choose from the options below:

Visit **mtdproducts.com** for many useful suggestions. Click on Customer Support button and you will get the four options reproduced here. Click on the appropriate button and help is immediately available.

The answer you are looking for could be just a mouse click away!


Find Answers
here to search our knowledge base. Sear
oduct, keyword, or phrase.
My Stuff
Login to check the status of your questions, modify your inquiries, or update your personal profile.
Service Locator
Need local assistance? Click here to find authorized service centers in your area.
Manuals Online
Need a manual and/or parts list? Download literature from recent model years.

The answer you are looking for could be just a mouse click away!



If you prefer to reach a Customer Support Representative, please call **1-800-800-7310**.

The **engine** manufacturer is responsible for all engine-related issues with regards to performance, power-rating, specifications, warranty and service. Please refer to the engine manufacturer's Owner's/Operator's Manual, packed separately with your unit, for more information.

SECTION 1: IMPORTANT SAFE OPERATION PRACTICES

WARNING: THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE THIS MACHINE. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY. WHEN YOU SEE THIS SYMBOL — HEED ITS WARNING**.**

WARNING: The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

DANGER: This machine was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. If you violate any of these rules, you may cause serious injury to yourself or others.

TRAINING

1. Read, understand, and follow all instructions on the machine and in the manual(s) before attempting to assemble and operate. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Be familiar with all controls and their proper operation. Know how to stop the machine and disengage them quickly.
3. Never allow children under 14 years old to operate this machine. Children 14 years old and over should read and understand the operation instructions and safety rules in this manual and should be trained and supervised by a parent.
4. Never allow adults to operate this machine without proper instruction.
5. To help avoid blade contact or a thrown object injury, keep bystanders, helpers, children and pets at least 75 feet from the machine while it is in operation. Stop machine if anyone enters the area.

PREPARATION

1. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones, toys and other foreign objects which could be tripped over or picked up and thrown by the blade. Thrown objects can cause serious personal injury.
2. Always wear safety glasses or safety goggles during operation and while performing an adjustment or repair to protect your eyes. Thrown objects which ricochet can cause serious injury to the eyes.
3. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts. Shirts and pants that cover the arms and legs and steel-toed shoes are recommended. Never operate this machine in bare feet, sandals, slippery or light weight (e.g. canvas) shoes.
4. Never attempt to make any adjustments while the engine is running, except where specifically recommended in the operator's manual.
5. To avoid personal injury or property damage use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Serious personal injury can occur when gasoline is spilled on yourself or your clothes which can ignite. Washer your skin and change clothes immediately.
    a. Use only an approved gasoline container.
    b. Extinguish all cigarettes, cigars, pipes and other sources of ignition.
    c. Never fuel machine indoors.
    d. Never remove gas cap or add fuel while the engine is hot or running.
    e. Allow engine to cool at least two minutes before refueling.
    f. Never over fill fuel tank. Fill tank to no more than ½ inch below bottom of filler neck to provide space for fuel expansion.
    g. Replace gasoline cap and tighten securely.
    h. If gasoline is spilled, wipe it off the engine and equipment. Move unit to another area. Wait five minutes before starting the engine.
    i. Never store the machine or fuel container inside where there is an open flame, spark or pilot light as on a water heater, space heater, furnace,clothes dryer or other gas appliances.
    j. Allow machine to cool at least 5 minutes before storing.

OPERATION

1. Do not put hands or feet near rotating parts. Contact with the rotating blade can amputate hands and feet.
2. The blade control handle is a safety device. Never bypass its operation. Doing so, makes the machine unsafe and may cause personal injury.
3. Never operate without blade guard, debris shield and blade control handle in place and working.

4. Never operate with damaged safety devices. Failure to do so, can result in personal injury.
5. Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.
6. Do not operate machine while under the influence of alcohol or drugs.
7. Muffler and engine become hot and can cause a burn. Do not touch.
8. Never operate this machine without good visibility or light. Always be sure of your footing and keep a firm hold on the handles. Walk, never run.
9. Do not operate this machine if it has been dropped or damaged. Return machine to your nearest authorized servicing dealer for examination and repair.
10. Do not operate this machine with a damaged or excessively worn cutting blade.
11. Never attempt to clear material from the blade guard while the engine is running. Shut the engine off, disconnect the spark plug wire and ground against the engine to prevent unintended starting.
12. Do not overload machine capacity by attempting to edge at too fast of a rate.
13. Stay alert for uneven sidewalks, terrain etc. Always push slowly over rough surfaces. Do not use this machine on gravel surfaces.
14. Do not operate machine in rain or wet soil conditions.
15. Always operate machine from behind the handles and position yourself where the direct line of sight to cutting blade is blocked by guards.
16. Always stop engine when edging or trimming is delayed or when transporting machine from one location to another.
17. Never leave a running machine unattended. Stop the engine, disconnect spark plug wire and ground against the engine to prevent unintended starting.
18. Only use parts and accessories made for this machine by the manufacturer. Failure to do so, can result in personal injury.
19. If situations occur which are not covered in this manual, use care and good judgment. Contact an authorized *MTD* service dealer or telephone 1-800-800-7310.

MAINTENANCE AND STORAGE

1. Never tamper with safety devices. Check their proper operation regularly.
2. Before cleaning, repairing, or inspecting, disconnect the spark plug wire and ground against the engine to prevent unintended starting.
3. Check bolts, and screws for proper tightness at frequent intervals to keep the machine in safe working condition. Also, visually inspect machine for any damage.
4. Do not change the engine governor setting or over-speed the engine. The governor controls the maximum safe operating speed of the engine.
5. The blade, blade guard and debris shield are subject to wear and damage. For your safety protection, frequently check all components and replace with original equipment manufacturer's (O.E.M.) parts only. "Use of parts which do not meet the original equipment specifications may lead to improper performance and compromise safety!"
6. Maintain or replace safety and instruction labels, as necessary.
7. Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.
8. Never store the machine or fuel container inside where there is an open flame, spark or pilot light such as a water heater, furnace,clothes dryer etc.
9. Always refer to the operator's manual for proper instructions on off-season storage.

WARNING: YOUR RESPONSIBILITY
Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine.

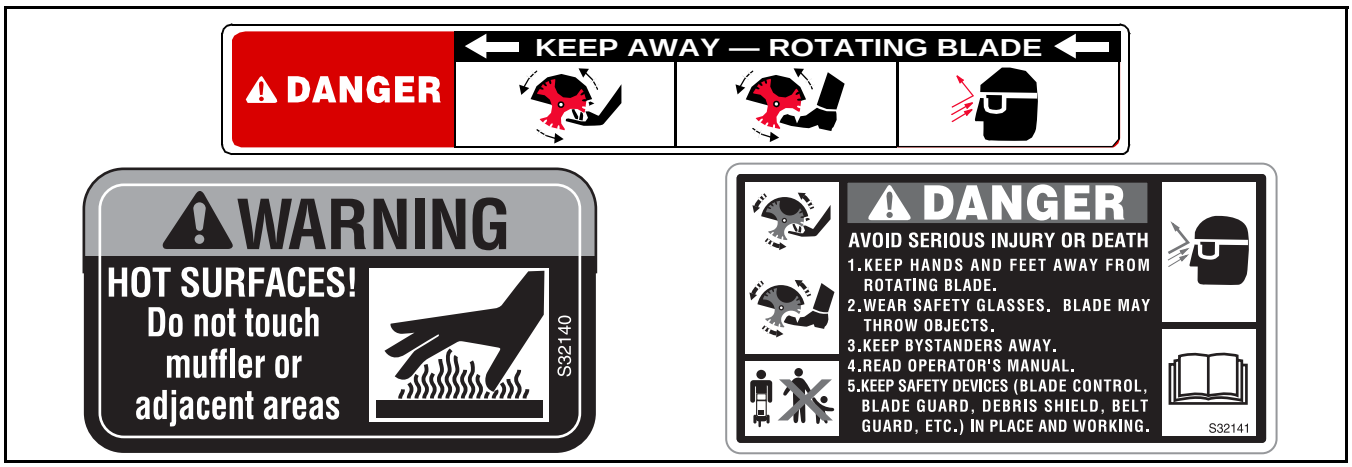

DANGER
KEEP AWAY — ROTATING BLADE
WARNING
HOT SURFACES!
Do not touch muffler or adjacent areas
S32140
DANGER
AVOID SERIOUS INJURY OR DEATH
1.KEEP HANDS AND FEET AWAY FROM ROTATING BLADE.
2.WEAR SAFETY GLASSES. BLADE MAY THROW OBJECTS.
3.KEEP BYSTANDERS AWAY.
4.READ OPERATOR'S MANUAL.
5.KEEP SAFETY DEVICES (BLADE CONTROL, BLADE GUARD, DEBRIS SHIELD, BELT GUARD, ETC.) IN PLACE AND WORKING.
S32141

Figure 1

SECTION 2: ASSEMBLING YOUR EDGER

IMPORTANT: This unit is shipped WITHOUT GASOLINE or OIL. After setting up the unit, service engine with gasoline and oil as instructed in the separate engine manual packed with your unit.

NOTE: *Reference to right or left hand side of the edger is observed from the operating position.*

Grounding the Engine's Spark Plug

- Disconnect the spark plug wire from the spark plug.

Positioning the Edger Handles

- Remove and discard any packaging cardboard that may be present between the upper handle and the lower handle.
- Depress the blade control bail at the top of the upper handle and pivot the upper handle upward until it snaps into place.
- Tighten the wing knobs which are located on both the left and right sides of the handle. See Figure 2 .

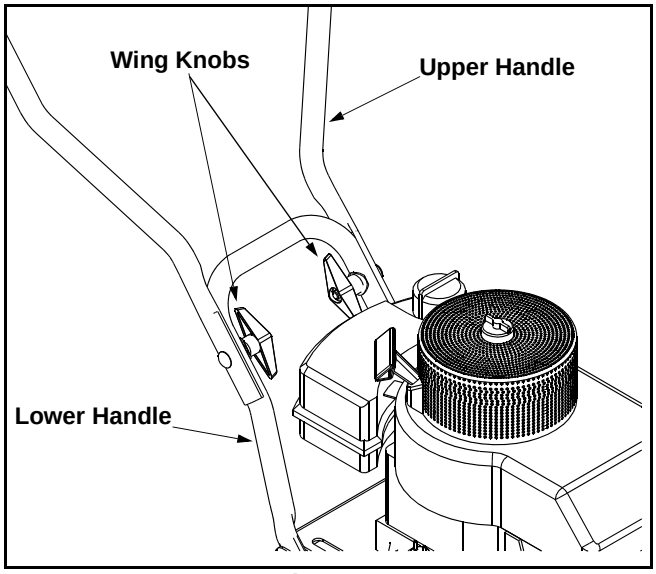


Figure 2

Attaching the Starter Rope

- Locate the eyebolt found on the right side of the upper handle.
- Loosen, but do NOT remove, the wing knob which secures the rope guide to the upper handle. See Figure 3.

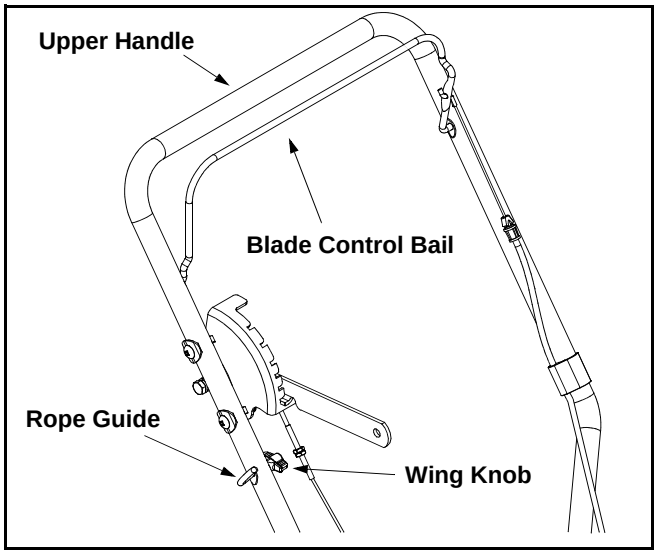


Figure 3

IMPORTANT: Make certain that the engine's spark plug wire is properly grounded as instructed earlier in this section before proceeding on to the next step.

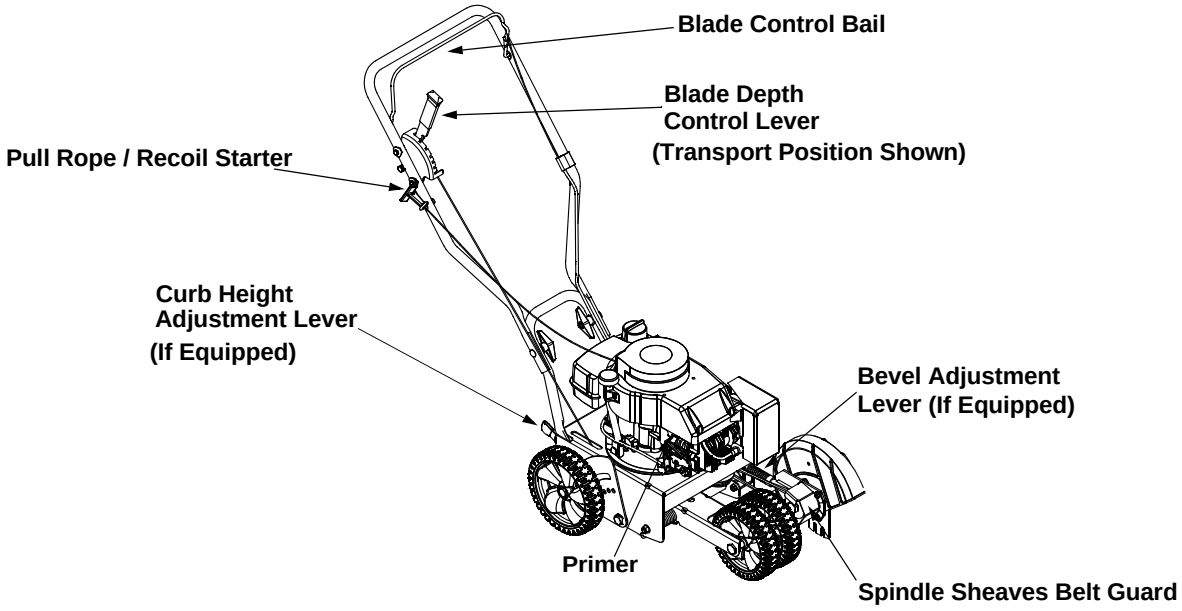
- Stand behind the unit and hold the blade control bail against the upper handle and gently pull the starter rope out of the engine.

WARNING: The edger blade WILL rotate when the starter rope is pulled.

NOTE: *The starter rope will not pull out of the engine unless the blade control bail (refer to Figure 3) is depressed against the upper handle.*

- Slip the starter rope through the top of the rope guide.
- Retighten the wing knob which secures the rope guide to the upper handle.

SECTION 3: KNOW YOUR EDGER



NOTE: Wheel and blade styles vary by model. Yours may differ slightly. Model 550 and 551 Shown.

Figure 4

WARNING: Be familiar with all controls and their proper operation. Know how to stop the machine and disengage them quickly.

NOTE: *Refer to the Engine Manual packed with your edger for a detailed description of all engine-related controls and components.*

Pull Rope / Recoil Starter

The pull rope/recoil starter is used to start the engine.

Primer

The primer is used to pump gas into the carburetor and aid in starting the engine. Use it to start a cold engine, but do not use it to restart a warm engine after a short shutdown.

NOTE: *Refer to the Engine Manual packed with your edger for a detailed description of all engine-related controls and components.*

Blade Control Bail

Located on the upper handle, the blade control bail must be depressed against the upper handle in order to operate the unit. Releasing the blade control stops the engine and the edger blade. See Figure 4.

Blade Depth Control Lever

The blade depth control lever is located on the right side of the upper handle. It is used to control the depth of the cut. The further forward the blade depth control lever is moved, the deeper into the soil the edger blade will cut. See Figure 4.

Bevel Adjustment Lever (if so equipped)

The bevel adjustment lever, if so equipped, is located on the front, left portion of the edger, behind the edger blade. It is used to vary the angle of the edger blade between one of three positions for edging/trenching or beveled edging. See Figure 4.

Curb Height Adjustment Lever (if so equipped)

The curb height adjustment lever, if so equipped, is found on the rear portion of the edger.When placed in an applicable notch, it aids in stabilizing the edger while edging grass along a curb. See Figure 4.

IMPORTANT: Become familiar with all the controls before operating the edger.

SECTION 4: OPERATING YOUR EDGER

The operation of any edger can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields. We recommend wide vision safety mask for over spectacles or standard safety glasses

WARNING: Do not lower blade if blade is over concrete, asphalt, rocks or the like. The blade can strike the supporting surface, resulting in personal injury or property damage.

Adding Gasoline And Oil

Service the engine with gasoline and oil as instructed in the Engine Manual packed with your edger. Read instructions carefully.

WARNING: Never fill fuel tank indoors, with engine running or until the engine has been allowed to cool for at least two minutes after running.

Starting The Engine

NOTE: *Refer to the Engine Manual packed with your edger for a detailed description of all engine-related controls and components.*

To start the edger's engine, proceed as follows:

- Attach the spark plug wire to the spark plug. Make certain the metal cap on the end of the spark plug wire is fastened securely over the metal tip on the spark plug.
- Move the blade depth control lever back to the START position in the adjacent (top) notch.
- Depress the primer bulb three times, pausing two to three seconds between each push. In cold weather (below 50°F /19°C), it may be necessary to depress the primer bulb four or five times.

IMPORTANT: Using the primer to restart a warm engine after a short shutdown is usually not necessary. Doing so may result in a flooded engine.

- Standing behind the unit, depress the blade control bail and hold it against the upper handle with your left hand.

WARNING: This control mechanism is a safety device. Never attempt to bypass its operation.

- With your right hand, grasp the recoil starter handle and slowly pull the rope outward until engine reaches the start of its compression cycle (the rope will pull slightly harder at this point).
- After slowly allowing the rope to recoil, pull the rope with a rapid, continuous, full arm stroke. Keep a firm grip on starter handle throughout the entire stroke.
- Allow the starter handle to slowly return to the eyebolt.

NOTE: *If the engine fails to start after three pulls, depress the primer an additional two times before pulling the starter rope again.*

To begin edging, proceed as follows:

- Move the blade depth control lever to the left and place it into any of the five lower notches. The further forward the blade depth control lever is moved, the deeper or lower the blade will cut into the ground.

IMPORTANT: For best results, proceed slowly along the path being edged, slowly moving the edger back and forth through the cutting area.

Stopping The Engine

To stop the edger's engine, proceed as follows:

- Release the blade control handle.

NOTE: *See your engine manual packed with your unit for more detailed instructions.*

IMPORTANT: Make certain that the engine's spark plug wire is properly grounded as instructed in SECTION 2: Assembling The Edger before storing the edger for its next use.

SECTION 5: MAKING ADJUSTMENTS

Bevel Adjustment (models so equipped)

NOTE: *Edger features vary by model. All edger models do NOT come equipped for blade tilt adjustment nor is there a blade tilt kit available to modify your edger if it was not purchased equipped to do so.*

The angle of the edger blade can be adjusted by placing the bevel adjustment lever in one of three positions for edging/trenching or beveled edging. See Figure 5.

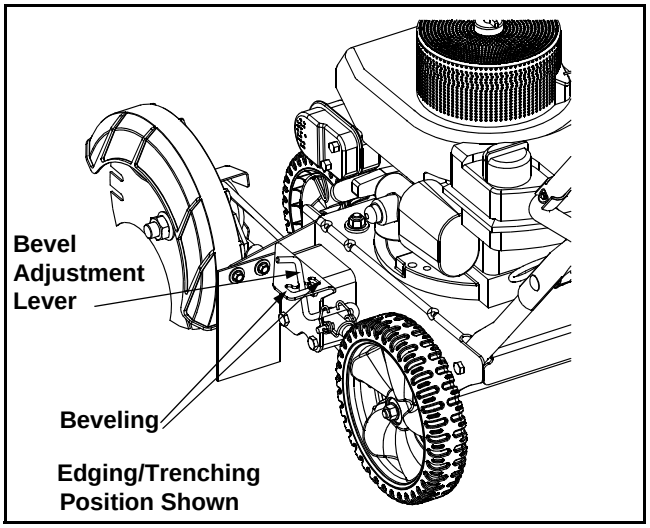


Figure 5

WARNING: Rotating cutting blade may throw objects causing personal injury. Keep area clear of bystanders and do not operate without guards in place.

Beveling

Set the bevel adjustment lever (refer to Figure 5) in the first (left hand) or third (right hand) notch to place the edger blade in position for beveling. See Figure 6.

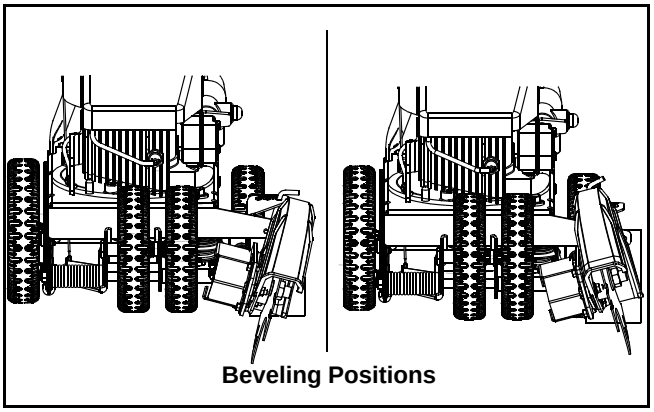


Figure 6

Edging

Set the bevel adjustment lever (refer to Figure 5) in the center notch to place the edger blade in a 90° position for edging. See Figure 7.

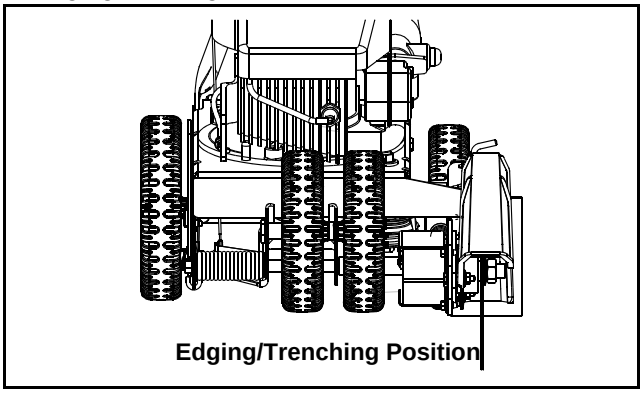


Figure 7

Trenching (models so equipped)

NOTE: *Edger features vary by model. All edger models do NOT come equipped for trenching. If your edger was not purchased equipped to do so, you may purchase part no. 736-04088 (flat washer) and part no. 781-0748 (triplex edger blade) to utilize this feature.*

WARNING: Disconnect the spark plug wire and ground against the engine before performing the following steps.

WARNING: The edger blade is sharp. Wear leather work gloves to protect your hands when working around the edger blade.

- Working in front of the edger, loosen the flange lock nut on top of frame, allowing the idler pulley assembly to pivot slightly out from the frame. See Figure 8.
- With your other hand, carefully reach under the rear of the unit and remove the belt from around the engine flywheel pulley. See Figure 8.

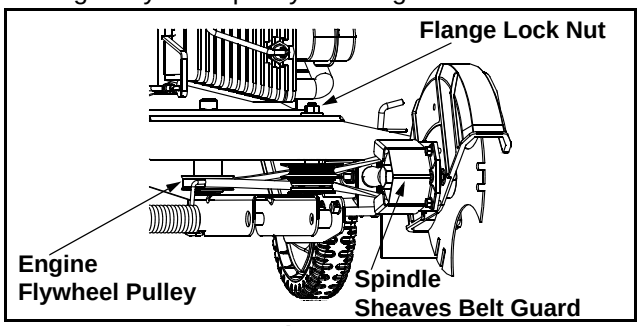


Figure 8

- Remove the spindle sheaves belt guard by removing the two self-tapping screws which secure it to the blade plate assembly. See Figure 9.

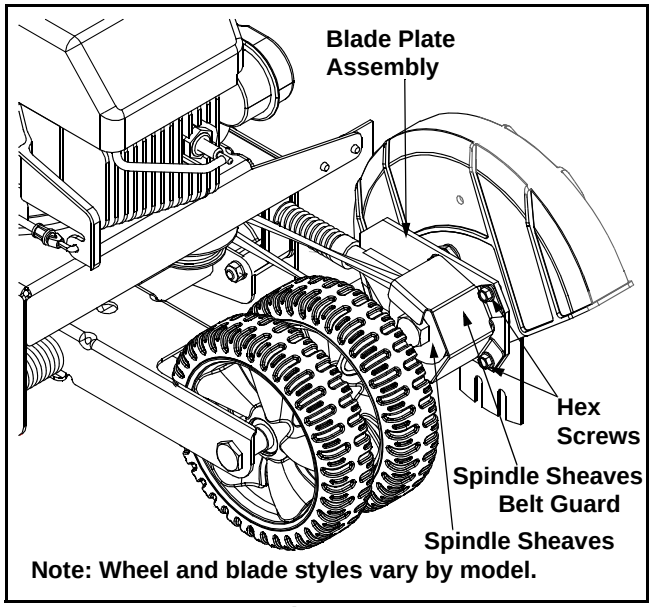


Figure 9

- Use two wrenches (one wrench to prevent the hex bolt head from spinning and the other to unthread the hex lock nut) to remove the hex lock nut and bell washer that secure the edger blade, leaving the edger blade in place. See Figure 10.

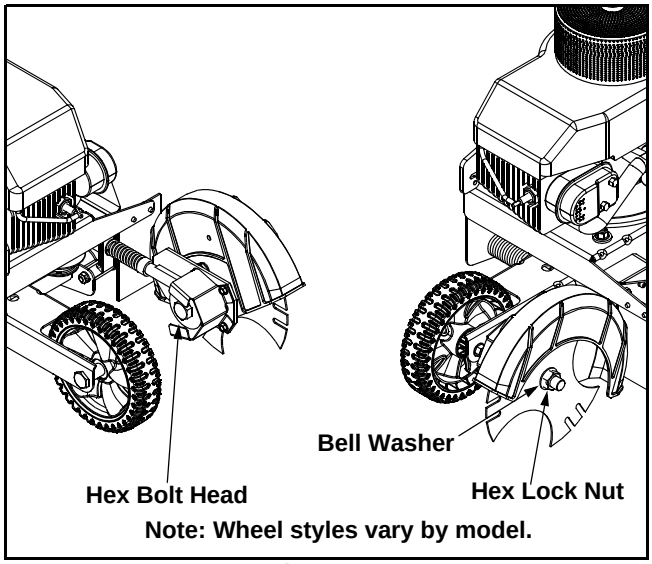


Figure 10

- Install the flat washer (part no. 736-04088) and the triplex edger blade (part no. 781-0748) that are packed separately in the box.
- Secure with the bell washer and the hex lock nut removed earlier. See Figure 11.

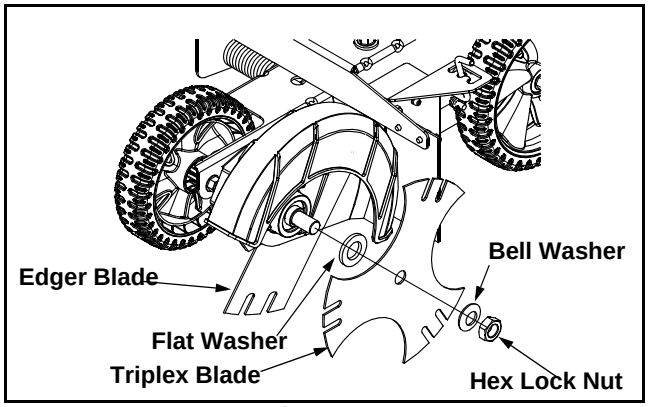


Figure 11

IMPORTANT: Use a torque wrench to tighten the hex lock nut to between 37 foot-lbs. and 50 foot-lbs.

- Reinstall the spindle belt guard with the self tapping screws removed earlier.
- Carefully place the drive belt back onto the engine flywheel pulley, and retighten the flange lock nut on the top of the frame.

IMPORTANT: Make certain that the drive belt is seated correctly on the blade spindle and that it is riding smoothly on the spindle sheaves and is not pinched between them. Repeat the first three steps if the belt is pinched.

- Set the bevel adjustment lever (refer to Figure 5) in the center notch to place the edger blade in a 90° position (see Figure 7) and place the blade depth control lever in the lowest position.

IMPORTANT: For best results, proceed slowly along the path being trenched, slowly moving the edger back and forth through the cutting area.

NOTE: *Utilizing this feature will enable you to create a wider cutting path for such things as laying wire for landscape lighting or invisible fences.*

Edging Along A Curb (models so equipped)

NOTE: *Edger features vary by model. All edger models do NOT come equipped to edge along a curb nor is there a curb wheel kit available to modify your edger if it was not purchased equipped to do so.*

On models so equipped, the right, rear wheel of the edger can be lowered into one of five positions to ease the task of edging along a curb.

To adjust the height of the curb wheel, proceed as follows:

- Lower the right, rear wheel by moving the curb height adjustment lever slightly to the left. See Figure 12.

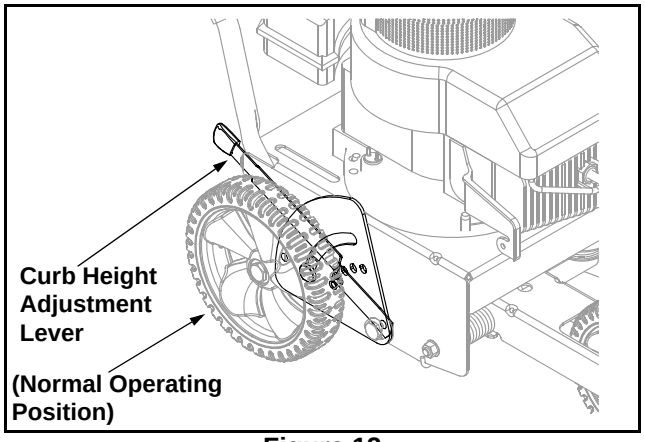


Figure 12

- Pivot the right, rear wheel into an applicable position in relation to the height of the curb to be edged along.
- Release the curb height adjustment lever to lock the wheel in position. See Figure 13.

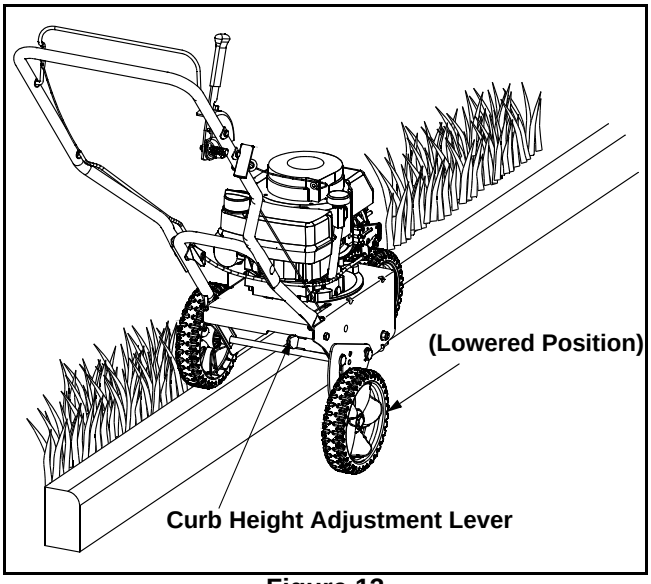


Figure 13

SECTION 6: MAINTAINING & SERVICING YOUR EDGER

WARNING: Disconnect the spark plug wire and ground against the engine before performing any adjustment, repairs or maintenance.

Lubrication

Engine

Refer to the *Engine* Manual packed with your edger for a detailed description of all engine-related service specifications.

Wheels

Lubricate the wheels and bearings at least once a season with a light oil. Also if the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner surface of the wheel with light oil.

Pivot Points

Lubricate the pivot points on the blade control bail, blade depth control lever, and if applicable, the blade adjustment lever, and curb height adjustment lever with light oil at least once a season.

Bearing Block

On the Model 550 and551, the bearing block is equipped with a grease fitting. Lubricate with a grease gun after every 25 hours or at least once a season. On the Model 521, simply apply oil through the tiny hole in the cover plate. See Figure 14.

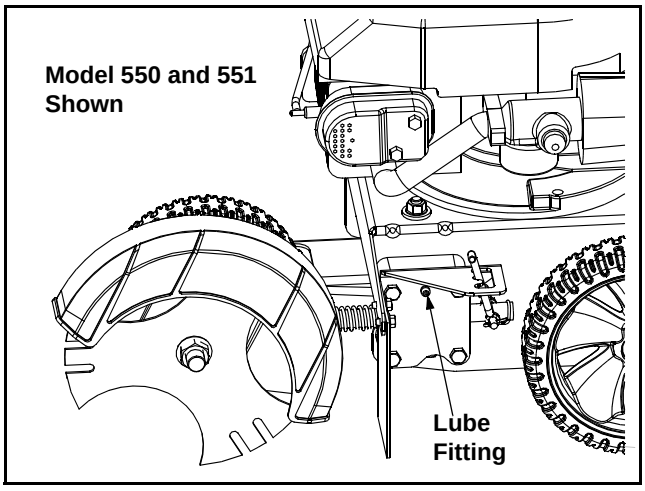


Figure 14

Replacing the Edger Blade

WARNING: The edger blade is sharp. Wear leather work gloves to protect your hands when working around the edger blade.

WARNING: Disconnect the spark plug wire and ground against engine before performing the following steps.

- Working in front of the edger, loosen the flange lock nut on top of frame, allowing the idler pulley assembly to pivot slightly out from the frame. See Figure 15.

- With your other hand, carefully reach under the rear of the unit and remove the belt from around the engine flywheel pulley.
- Remove the spindle sheaves belt guard by removing the two self-tapping screws which secure it to the blade plate assembly. See Figure 9.
- Use two wrenches (one wrench to prevent the hex bolt head from spinning and the other to remove the hex lock nut and bell washer) to remove the edger blade. Refer to Figure 10.
- Remove and discard the edger blade but retain the bell washer and hex lock nut.
- Install the replacement edger blade, the bell washer (cupped side facing **inward**) and the hex lock nut removed earlier.

IMPORTANT: Use a torque wrench to tighten the hex lock nut to between 37 foot-lbs. and 50 foot-lbs.

- Reinstall the spindle belt guard with the self tapping screws removed earlier.
- Carefully place the drive belt back onto the engine flywheel pulley, and retighten the flange lock nut on the top of the frame.

IMPORTANT: Make certain that the drive belt is seated correctly on the blade spindle and that it is riding smoothly on the spindle sheaves and is not pinched between them. Repeat the first three steps if the belt is pinched.

Replacing the Drive Belt

IMPORTANT: To aid in reassembly, note the orientation of the drive belt on the two idler pulleys and the engine flywheel pulley prior to performing the following steps. Refer to Figure 15.

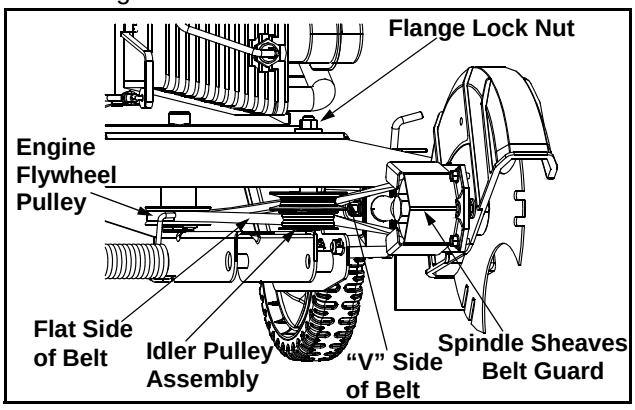


Figure 15

The edger drive belt is subject to wear and should be replaced if any signs of cracking, shredding or rotting are present. To replace the belt, proceed as follows:

- Working in front of the edger, loosen the flange lock nut on top of frame, allowing the idler pulley assembly to pivot slightly out from the frame. See Figure 15.
- With your other hand, carefully reach under the rear of the unit and remove the belt from around the engine flywheel pulley.
- Remove the spindle sheaves belt guard by removing the two self-tapping screws which secure it to the blade plate assembly. See Figure 9.
- Carefully remove the belt from off of the pulleys, again making sure to note the orientation of the belt. Discard the belt.

Install the replacement belt (Part No. 754-04032) in the same configuration that the original belt was routed as follows:

- Working from the front of the edger, place the belt onto the spindle sheaves, route it back onto the two idler pulleys, and then place it onto the engine flywheel pulley.

IMPORTANT: Make certain that the "V" side of the belt is seated into the top pulley and the flat side of the belt is seated into the bottom pulley. See Figure 15.

- Reinstall the spindle sheaves belt guard with the self tapping screws removed earlier.
- Make certain that the drive belt is on the engine flywheel pulley and idler pulleys, and retighten the flange lock nut on the top of the frame.

IMPORTANT: Make certain that the drive belt is seated correctly and that it is riding smoothly on the spindle sheaves and is not pinched between them. Repeat the first three steps if the belt is pinched.

WARNING: Never operate the edger without the spindle sheaves belt guard in place.

SECTION 7: OFF-SEASON STORAGE

Observe the following when preparing the edger for long-term storage:

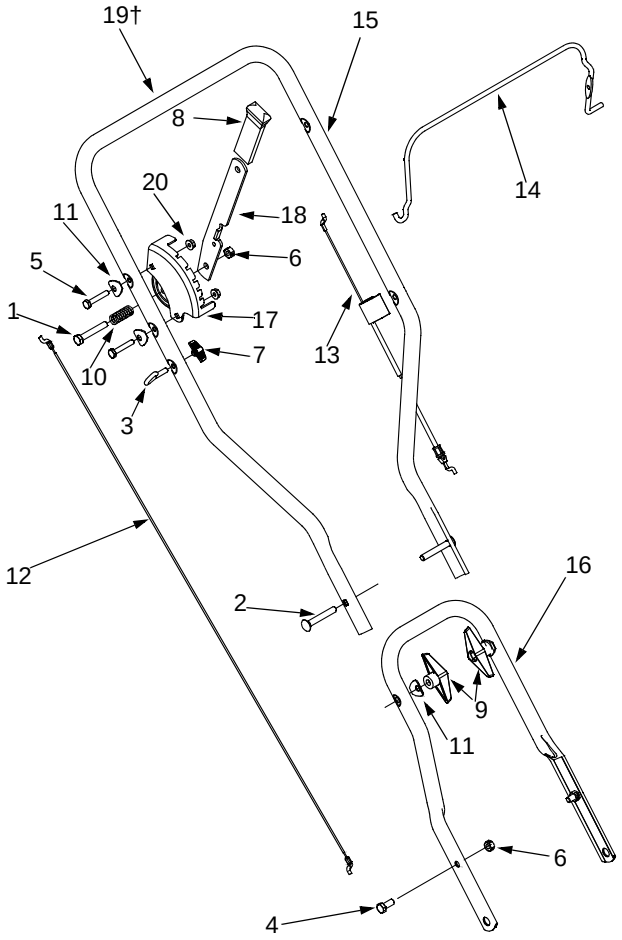
- Clean and lubricate unit thoroughly as instructed on page 10 of this manual.
- Refer to the Engine Manual packed separately with the edger for engine manufacturers's storage instructions.
- Coat the edger blade with chassis grease to prevent rusting and corrosion.
- Store the edger in a dry, clean area. Do not store next to any corrosive materials, such as lawn fertilizer.
- Coat the edger, especially any springs and bearings with a light oil or silicone spray.

IMPORTANT: When storing any type of power equipment in an poorly ventilated or metal storage shed, care should be taken to rustproof the equipment.

SECTION 8: TROUBLESHOOTING

Trouble	Possible Cause(s)	Corrective Action
Engine fails to start	Dirty air cleaner Engine needs to be primed Fuel tank empty Stale fuel in gasoline tank Spark plug wire disconnected. Spark plug fouled Engine flooded	Refer to the Engine Manual packed with your unit. Push primer bulb two or three times. Fill tank with clean, fresh gasoline. Drain gasoline and refill tank with clean, fresh gasoline. Connect the spark plug wire to the spark plug. Clean, adjust gap or replace spark plug. Refer to the Engine Manual packed with your unit.
Engine runs erratic	Spark plug wire loose Stale fuel in gasoline tank Vent in gas cap plugged Water or dirt in fuel system Dirty air cleaner Carburetor out of adjustment	Connect and tighten spark plug wire. Drain gasoline and refill tank with clean, fresh gasoline. Clear vent of any debris. Drain fuel tank. Refill with fresh fuel. Refer to the Engine Manual packed with your unit. Refer to the Engine Manual packed with your unit.
Engine overheats	Engine oil level low Air flow restricted Dirty air filter Carburetor not adjusted properly	Fill crankcase with proper oil. Clean the area around the engine's cooling fins. Replace the engine's air filter. Refer to the Engine Manual packed with your unit.
Excessive vibration	Edger blade bent or damaged Blade spindle bent or damaged	Replace edger blade. Contact an authorized *MTD* service dealer.
Drive belt slips	Belt worn or stretched	Replace drive belt.

SECTION 9: PARTS LIST FOR MODEL 520/550/551 HANDLE

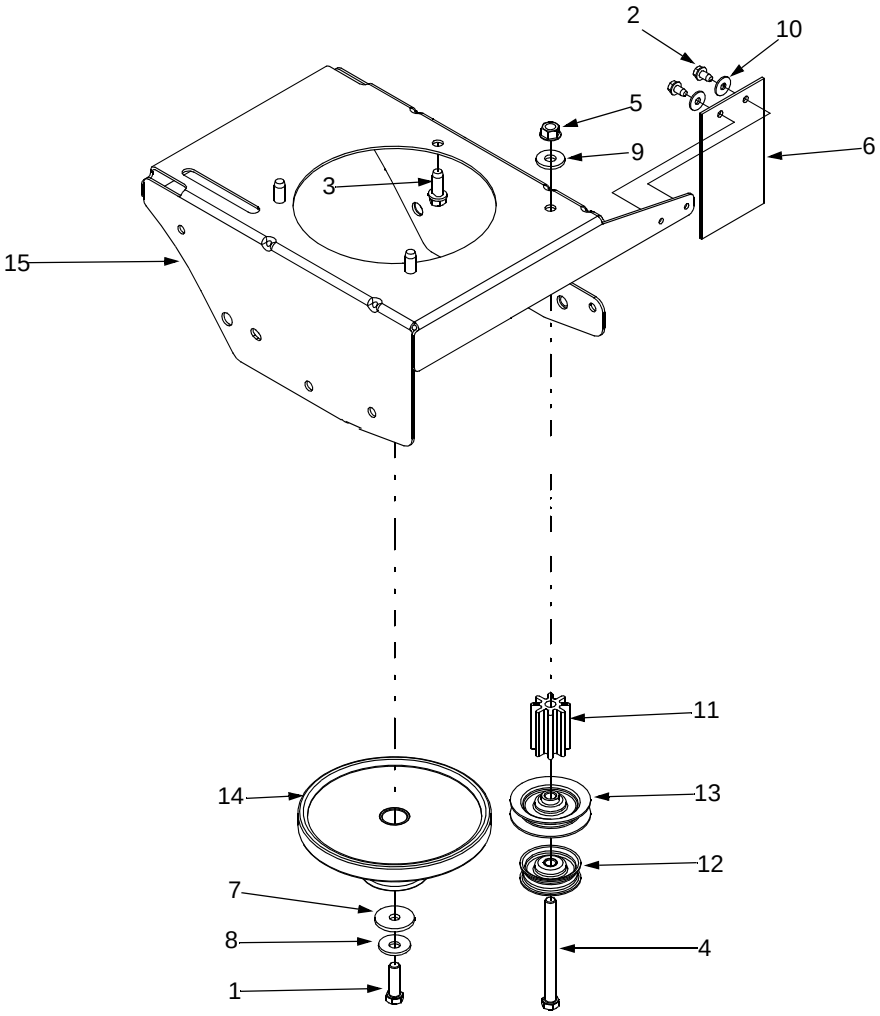


REF. NO.	PART NO.	DESCRIPTION
1	710-3103	Screw, 5/16-18
2	710-0449	Screw, 5/16-18
3	710-1205	Eye Bolt
4	710-3008	Screw, 5/16-18
5	710-0606	Screw
6	712-3004A	Hex Lock Nut, 5/16-18
7	720-0279	Wing Nut
8	720-0142	Grip
9	720-0241	Wing Knob
10	732-0369	Compression Spring
11	736-0451	Saddle Washer,.320 ID x.93 OD

REF. NO.	PART NO.	DESCRIPTION
12	746-04036	Wheel Adjustment Cable
13	746-04035	Control Cable (Briggs & Stratton)
	746-04052	Control Cable (Tecumseh)
14	747-0976A	Bail Handle
15	749-1225	Upper Handle
16	749-4044	Lower Handle
17	781-0741	Depth Index Bracket
18	781-0742	Depth Index Lever
19	720-0297†	Foam Grip
20	712-3027	Hex Flange Nut, 1/4-20

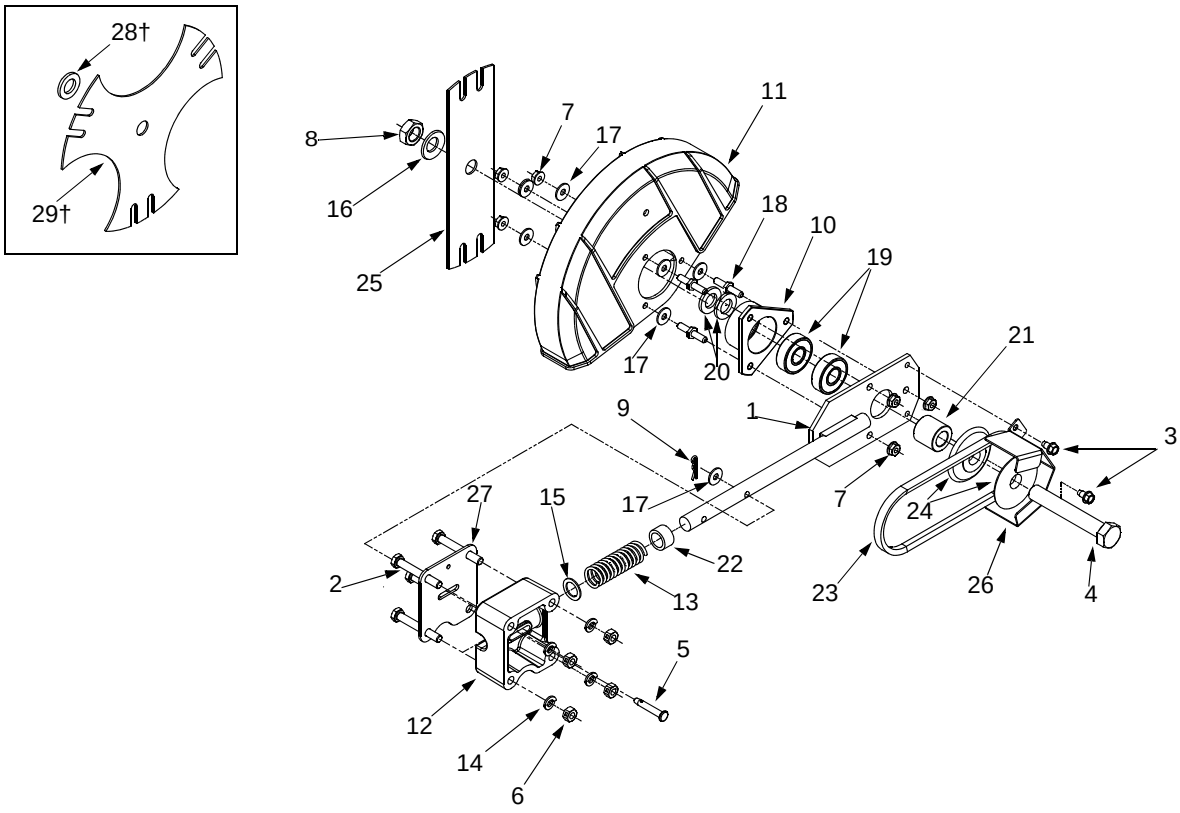
†If so equipped

Model 520/550/551 Frame



REF. NO.	PART NO.	DESCRIPTION
1	710-0191	Screw, 3/8-24
2	710-0599	Screw, 1/4-20
3	710-0654A	Screw, 3/8-16
4	710-0944	Screw, 3/8-16
5	712-0431	Flange Lock Nut, 3/8-16
6	731-04168	Debris Guard
7	736-0320	Flat Washer, 3/8 ID x 1.37 OD
8	736-0452	Bell Washer,.396 x 1.140
9	736-3052	Flat Washer,.406 x 1.00
10	736-3090	Flat Washer,.260 x.720
11	750-04142	Pulley Mount Spacer
12	756-0313	Flat Idler Pulley, 1.88 OD
13	756-1035A	Idler Pulley
14	756-1150A	Combination Flywheel Pulley
15	787-01072	Frame

Model 520 Spindle Assembly



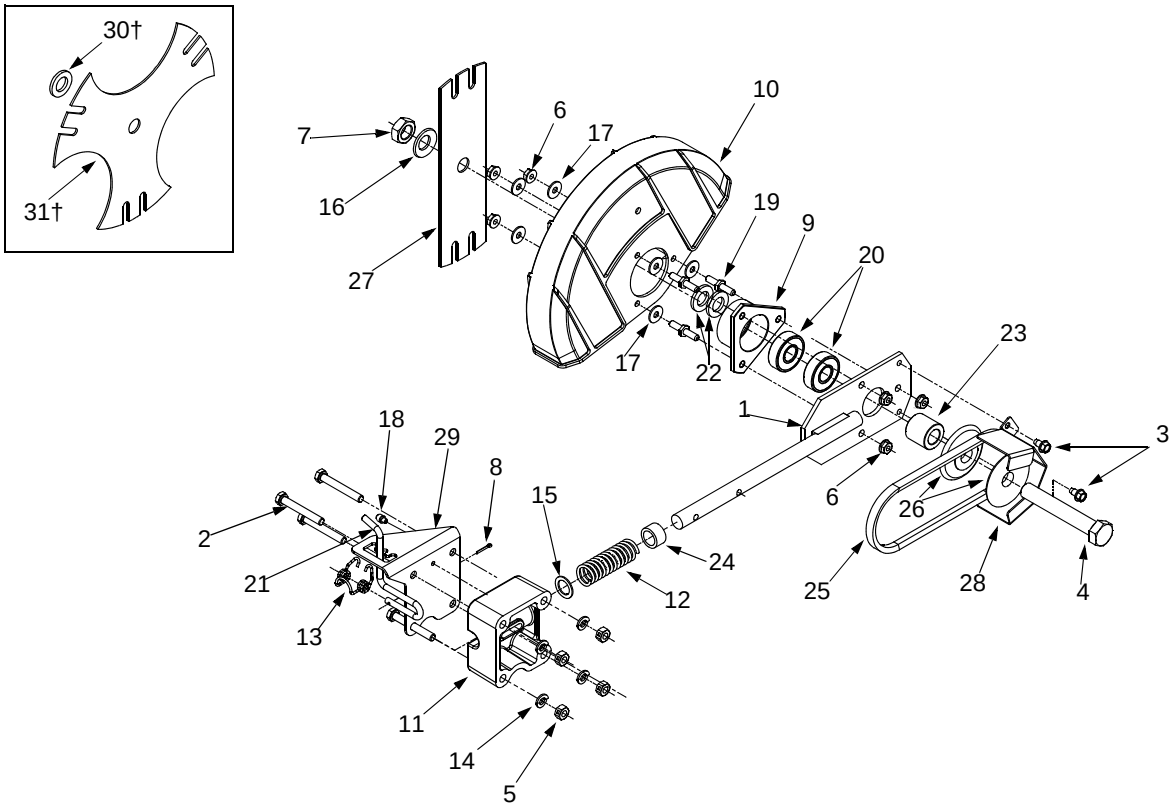
V-BELTS are specially designed to engage and disengage safely. A substitute (non-OEM) V-Belt can be dangerous by not disengaging completely.

REF. NO.	PART NO.	DESCRIPTION
1	687-02019	Blade Plate Assembly
2	710-0395	Hex Screw, 5/16-18
3	710-0599	Self-tapping Screw, 1/4-20
4	710-1143A	Hex Screw, 5/8-18
5	711-1017	Clevis Pin
6	712-3004A	Hex Lock Nut, 5/16-18
7	712-3027	Hex Flange Nut, 1/4-20
8	712-3056	Jam Nut, 5/8-18
9	714-0104	Cotter Pin
10	718-04012	Bearing Cup
11	731-04158	Blade Guard
12	731-04207	Bearing Block
13	732-04169	Compression Spring
14	736-0119	Lock Washer
15	736-0187	Flat Washer

REF. NO.	PART NO.	DESCRIPTION
16	736-0317	Bell Washer,.63 ID x 1.2 OD
17	736-3090	Flat Washer,.260 x.72
18	738-04025	Pin, 1/4-20
19	741-0524	Bearing,.625 ID x 1.57 OD
20	736-04088	Flat Washer
21	750-04105	Spacer,.63 x 1.12 x 1.06
22	750-0547	Spacer,.632 ID x.875 OD
23	754-04032	Belt
24	756-0449	Sheave
25	781-0080	Blade
26	781-0427	Belt Guard
27	787-01075	Cover Plate
28	736-04088†	Flat Washer
29	781-0748†	Tri Star Blade

†If so equipped

Model 550 And 551 Spindle Assembly



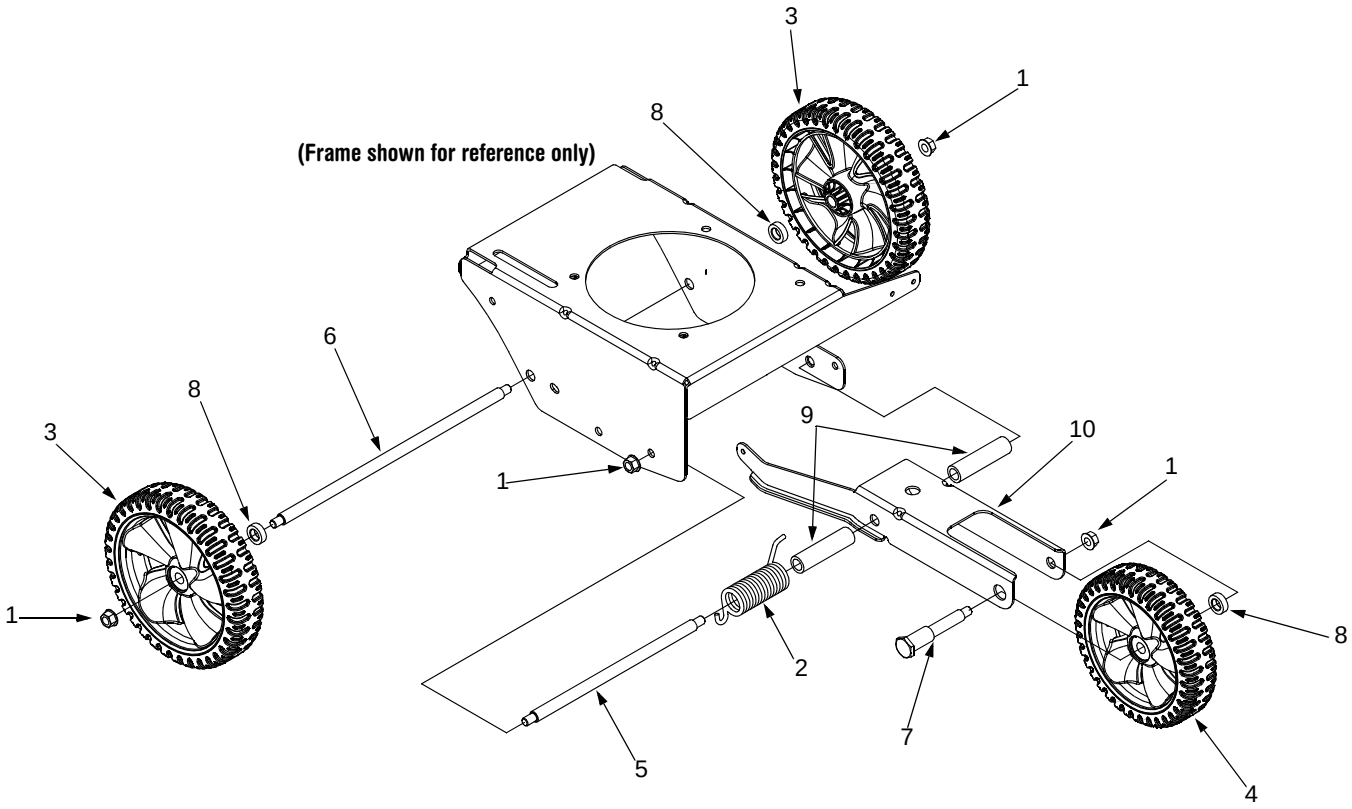
V-BELTS are specially designed to engage and disengage safely. A substitute (non-OEM) V-Belt can be dangerous by not disengaging completely.

REF. NO.	PART NO.	DESCRIPTION
1	687-02019	Blade Plate Assembly
2	710-0395	Hex Screw, 5/16-18
3	710-0599	Self-tapping Screw, 1/4-20
4	710-1143A	Hex Screw, 5/8-18
5	712-3004A	Hex Lock Nut, 5/16-18
6	712-3027	Hex Flange Nut, 1/4-20
7	712-3056	Jam Nut, 5/8-18
8	714-3010	Cotter Pin
9	718-04012	Bearing Cup
10	731-04158	Blade Guard
11	731-04207	Bearing Block
12	732-04169	Compression Spring
13	732-0188A	Double Torsion Spring
14	736-0119	Lock Washer
15	736-0187	Flat Washer
16	736-0317	Bell Washer,.63 ID x 1.2 OD

REF. NO.	PART NO.	DESCRIPTION
17	736-3090	Flat Washer,.260 x.72
18	737-3000	Lube Fitting, 3/16
19	738-04025	Pin, 1/4-20
20	741-0524	Bearing,.625 ID x 1.57 OD
21	747-04110	Blade Adjustment Rod
22	736-04088	Spacer.635 ID x.88 OD
23	750-04105	Spacer,.63 x 1.12 x 1.06
24	750-0547	Spacer,.632 ID x.875 OD
25	754-04032	Belt
26	756-0449	Sheave
27	781-0080	Blade
28	781-0427	Spindle Belt Guard
29	787-01081	Index Bracket
30	736-04088†	Flat Washer
31	781-0748†	Tri Star Blade

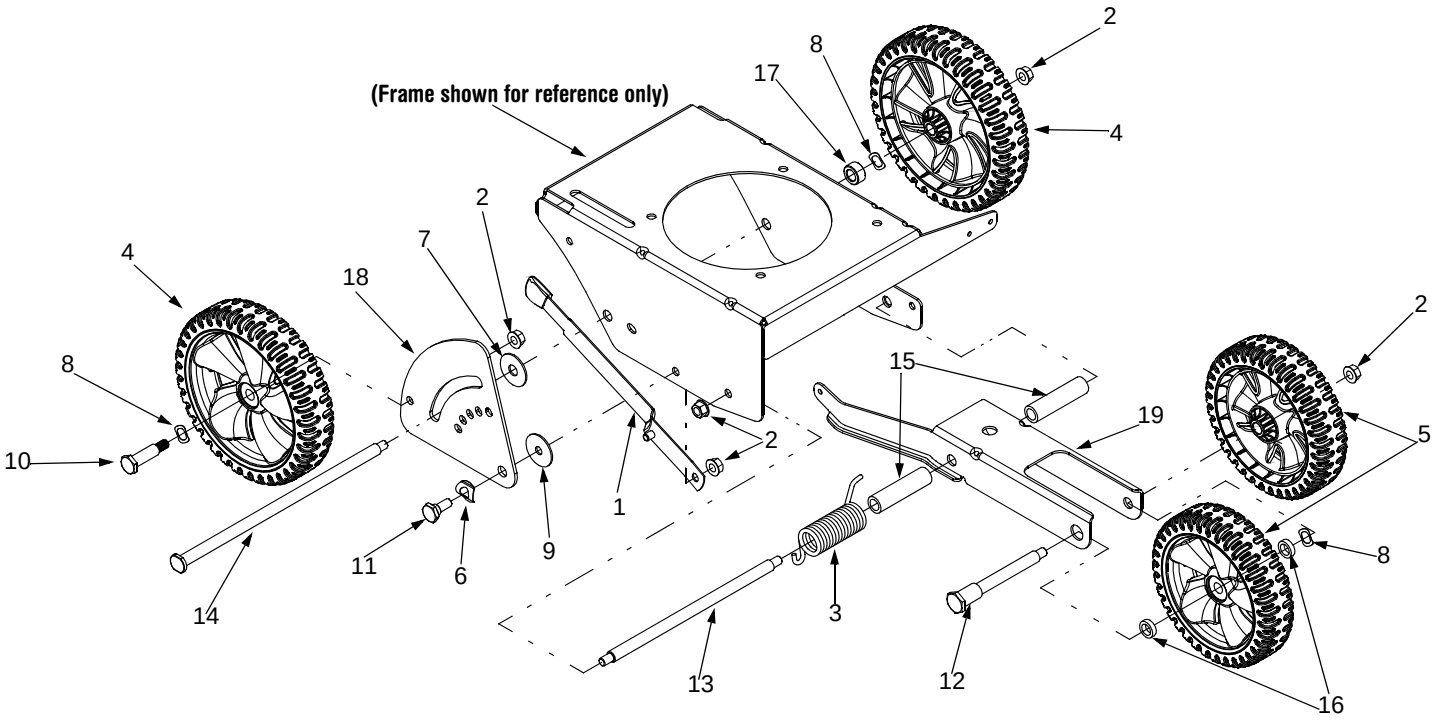
†If so equipped

Model 520 Wheel Assembly



REF. NO.	PART NO.	DESCRIPTION
1	712-0431	Flange Lock Nut, 3/8-16
2	732-04045	Torsion Spring
3	734-1987	Wheel 8x1.8
4	734-1988	Wheel 7x1.8
5	738-04037	Shoulder Screw,.50 x 9.36, 3/8-16
6	738-04038	Shoulder Screw,.50 x 12.90, 3/8-16
7	738-04039	Shoulder Screw,.50 x 3.19, 3/8-16
8	750-0289	Spacer,.510 ID x.875 OD
9	750-04129	Spacer,.525 x.775
10	787-01074	Wheel Bracket

Model 550 And 551 Wheel Assembly



REF. NO.	PART NO.	DESCRIPTION
1	687-02022	Curb Height Adjustment Lever
2	712-0431	Flange Lock Nut, 3/8-16
3	732-04045	Torsion Spring
4	734-1987	Wheel 8x1.8
5	734-1988	Wheel 7x1.8
6	736-0182	Spring Washer,.500 x 1.00
7	736-0208	Flat Washer,.51 ID x 1.5 OD
8	736-0232	Wave Washer,.531 ID x.781 OD
9	736-0234	Washer,.385 x 1.5
10	738-0213	Shoulder Screw,.498 x 1.445
11	738-0380	Shoulder Screw,.50 x.27
12	738-04036	Shoulder Screw,.50 x 4.62
13	738-04037	Shoulder Screw,.50 x 9.36, 3/8-16
14	738-04041	Shoulder Screw,.50 x 11.61
15	750-04129	Spacer,.525 x.775
16	750-04165	Spacer,.525 x.775
17	750-0664	Spacer,.505 ID x.88 OD
18	781-0100	Curb Height Adjuster Plate
19	787-01074	Wheel Bracket

NOTES

MANUFACTURER'S LIMITED WARRANTY FOR:

The limited warranty set forth below is given by MTD LLC with respect to new merchandise purchased and used in the United States, its possessions and territories.

"MTD"warrants this product against defects in material and workmanship for a period of two (2) years commencing on the date of original purchase and will, at its option, repair or replace, free of charge, any part found to be defective in materials or workmanship. This limited warranty shall only apply if this product has been operated and maintained in accordance with the Operator's Manual furnished with the product, and has not been subject to misuse, abuse, commercial use, neglect, accident, improper maintenance, alteration, vandalism, theft, fire, water, or damage because of other peril or natural disaster. Damage resulting from the installation or use of any part, accessory or attachment not approved by MTD for use with the product(s) covered by this manual will void your warranty as to any resulting damage.

Normal wear parts are warranted to be free from defects in material and workmanship for a period of thirty (30) days from the date of purchase. Normal wear parts include, but not limited to items such as: batteries, belts, blades, blade adapters, grass bags, rider deck wheels, seats, snow thrower skid shoes, shave plates, auger spiral rubber and tires.

HOW TO OBTAIN SERVICE: Warranty service is available, WITH PROOF OF PURCHASE, through your local authorized service dealer. To locate the dealer in your area, check your Yellow Pages, or contact MTD LLC at P.O. Box 361131, Cleveland, Ohio 44136-0019, or call 1-800-800-7310 or 1-330-220-4683 or log on to our Web site at www.mtdproducts.com.

This limited warranty does **not** provide coverage in the following cases:

a. The engine or component parts thereof. These items may carry a separate manufacturer's warranty. Refer to applicable manufacturer's warranty for terms and conditions.
b. Log splitter pumps, valves, and cylinders have a separate one year warranty.
c. Routine maintenance items such as lubricants, filters, blade sharpening, tune-ups, brake adjustments, clutch adjustments, deck adjustments, and normal deterioration of the exterior finish due to use or exposure.
d. Service completed by someone other than an authorized service dealer.
e. MTD does not extend any warranty for products sold or exported outside of the United States, its possessions and territories, except those sold through MTD's authorized channels of export distribution.
f. Replacement parts that are not genuine MTD parts.
g. Transportation charges and service calls.

No implied warranty, including any implied warranty of merchantability of fitness for a particular purpose, applies after the applicable period of express written warranty above as to the parts as identified. No other express warranty, whether written or oral, except as mentioned above, given by any person or entity, including a dealer or retailer, with respect to any product, shall bind MTD. During the period of the warranty, the exclusive remedy is repair or replacement of the product as set forth above.

The provisions as set forth in this warranty provide the sole and exclusive remedy arising from the sale. MTD shall not be liable for incidental or consequential loss or damage including, without limitation, expenses incurred for substitute or replacement lawn care services or for rental expenses to temporarily replace a warranted product.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

In no event shall recovery of any kind be greater than the amount of the purchase price of the product sold. **Alteration of safety features of the product shall void this warranty.** You assume the risk and liability for loss, damage, or injury to you and your property and/or to others and their property arising out of the misuse or inability to use the product.

This limited warranty shall not extend to anyone other than the original purchaser or to the person for whom it was purchased as a gift.

HOW STATE LAW RELATES TO THIS WARRANTY: This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

IMPORTANT: Owner must present Original Proof of Purchase to obtain warranty coverage.

MTD LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019; Phone: 1-800-800-7310, 1-330-220-4683